

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P324146

Luminaire Tested: **GAN-SA2A-740-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7070 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

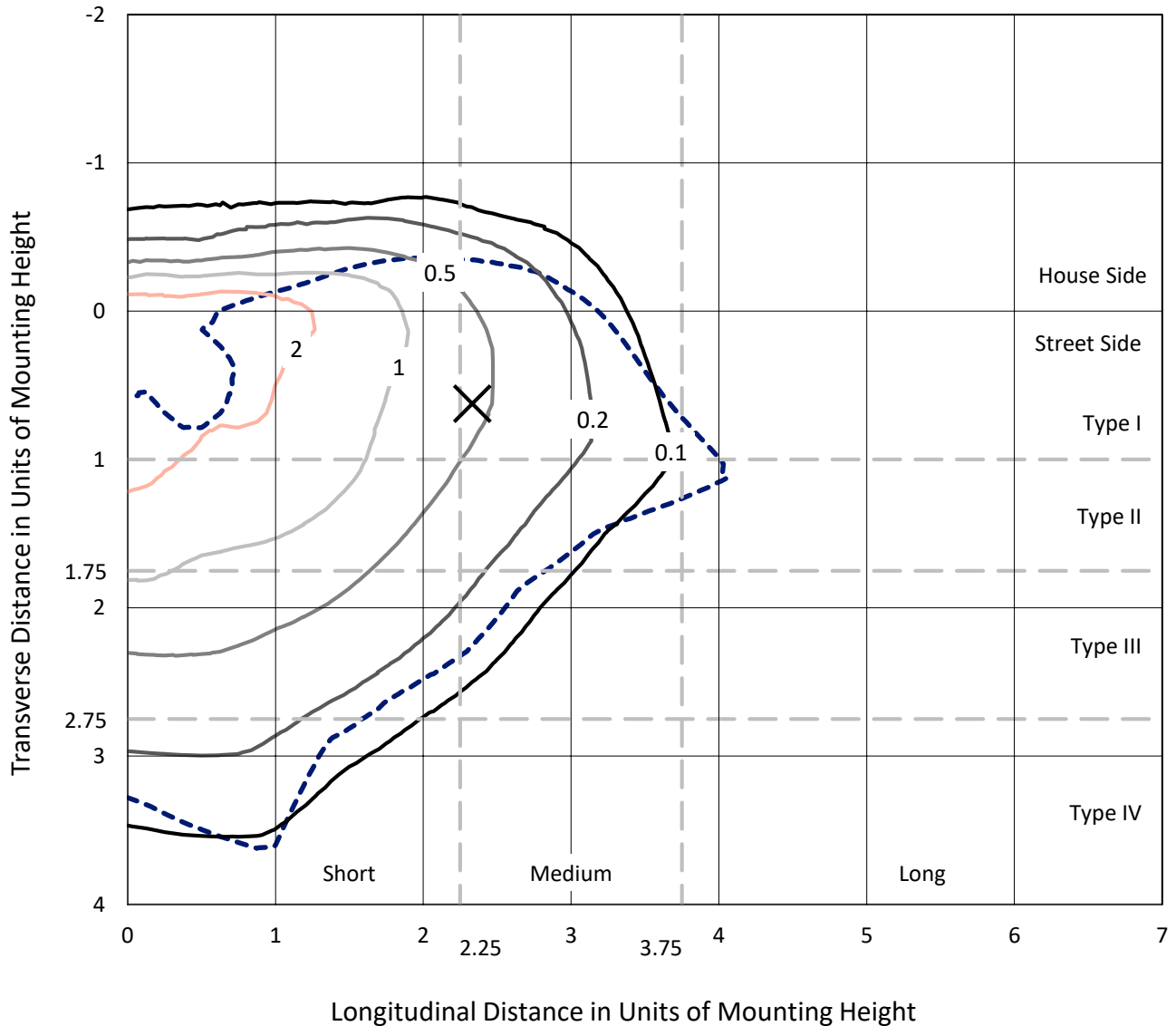
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324146
 CATALOG NUMBER: GAN-SA2A-740-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

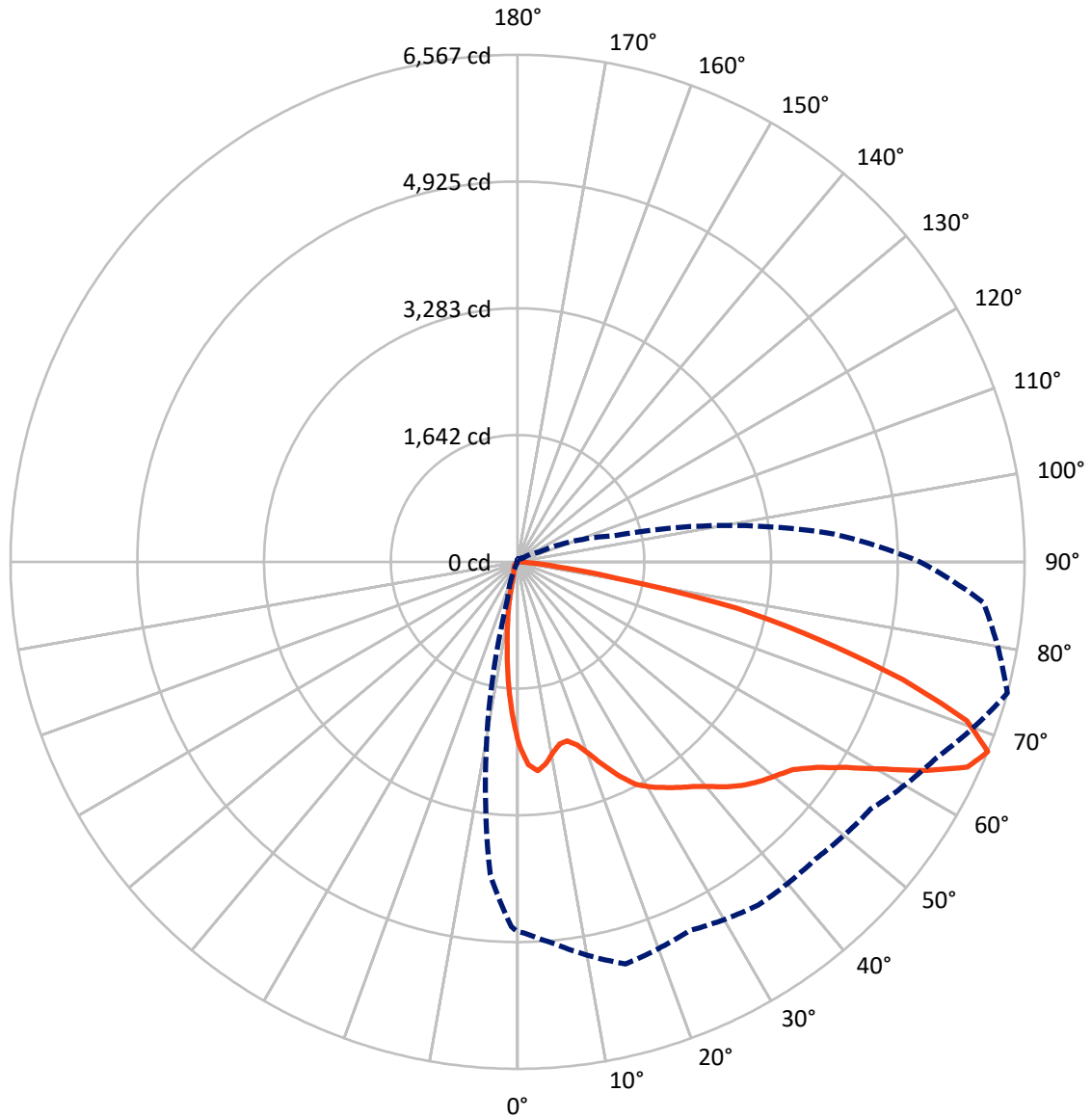
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P324146
CATALOG NUMBER: GAN-SA2A-740-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P324146
 CATALOG NUMBER: GAN-SA2A-740-U-SLL-HSS

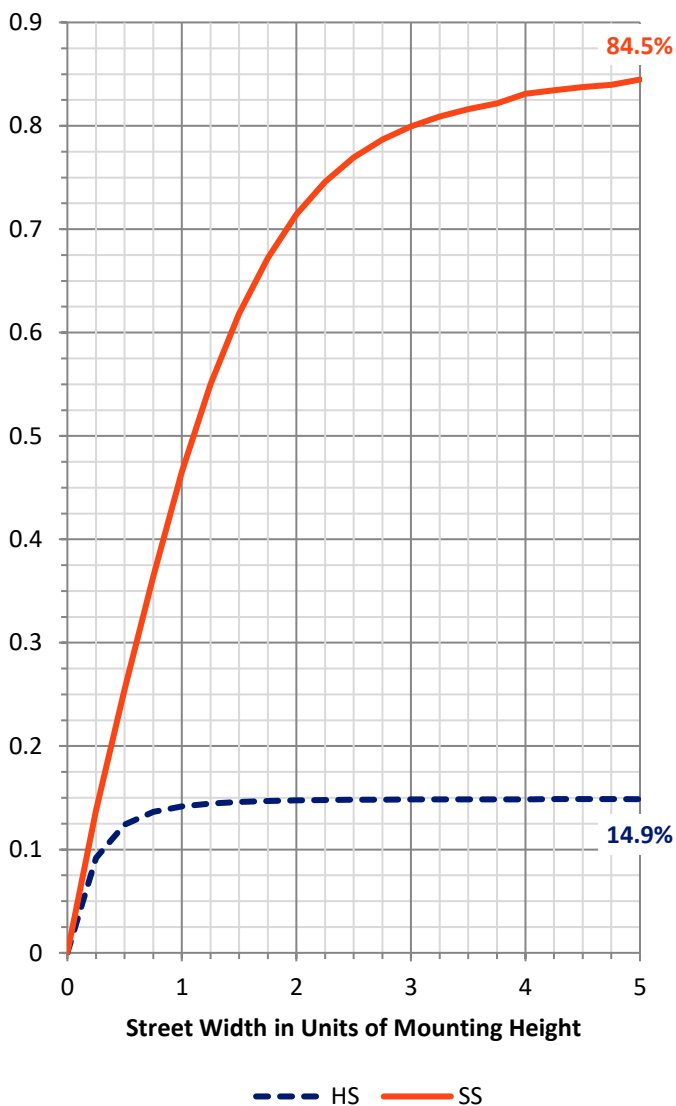
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1060.9	0.0	1060.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	6009.1	0.0	6009.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	7070.0	0.0	7070.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	2.5
10°-20°	354.3	5.0
20°-30°	501.2	7.1
30°-40°	736.9	10.4
40°-50°	1059.1	15.0
50°-60°	1491.0	21.1
60°-70°	1741.3	24.6
70°-80°	888.4	12.6
80°-90°	118.0	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7070.0	100.0
0°-180°	7070.0	100.0

Coefficient of Utilization

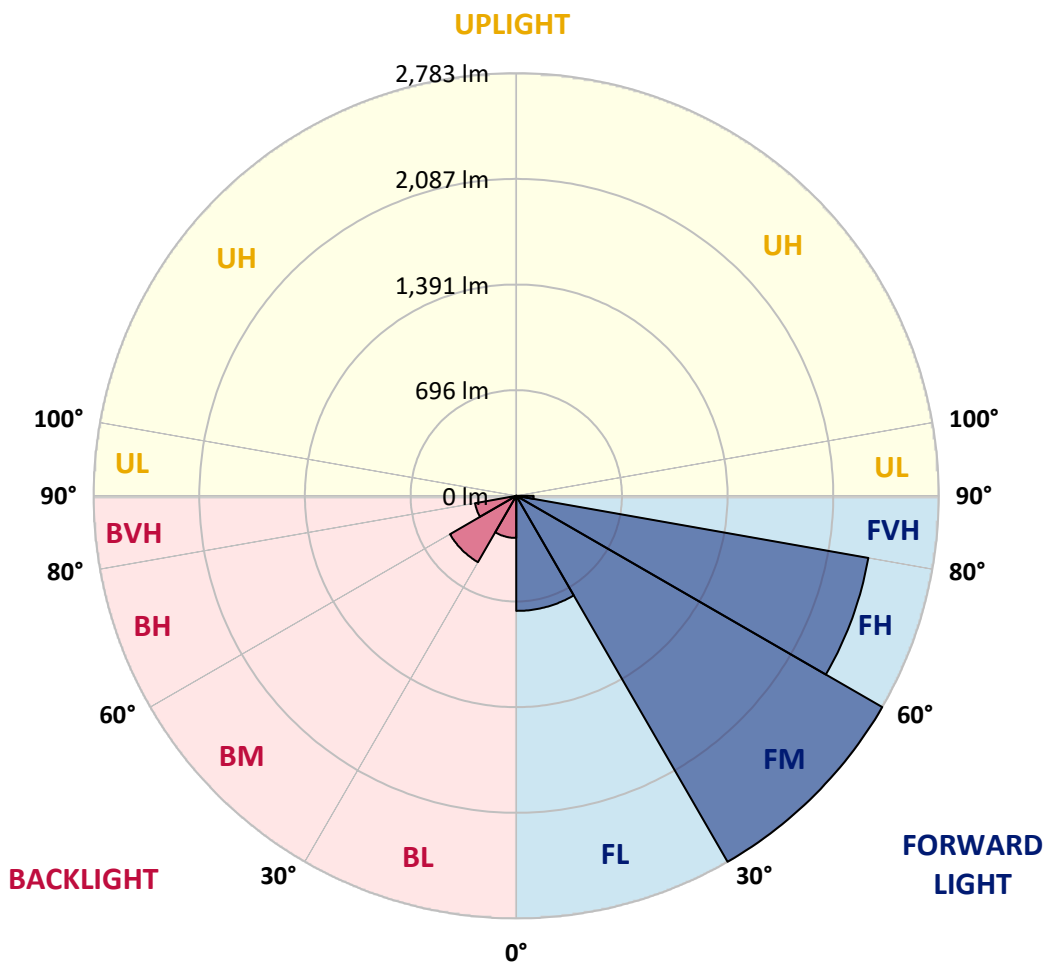


REPORT NUMBER: P324146
 CATALOG NUMBER: GAN-SA2A-740-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	757.9	10.7			
FM (30°-60°)	2782.6	39.4			
FH (60°-80°)	2354.1	33.3			G2/5000
FVH (80°-90°)	114.4	1.6			G2/225
BL (0°-30°)	277.4	3.9	B1/500		
BM (30°-60°)	504.3	7.1	B1/1000		
BH (60°-80°)	275.6	3.9	B1/500		G1/500
BVH (80°-90°)	3.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





REPORT NUMBER: P324146
 CATALOG NUMBER: GAN-SA2A-740-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9
2.5°	2571.1	2575.2	2595.9	2644.1	2696.7	2700.8	2736.3	2699.7	2687.4	2628.4	2567.5
5°	2590.6	2606.0	2677.3	2819.0	2941.9	2981.4	3009.5	2937.9	2862.5	2718.5	2564.8
7.5°	2434.2	2459.9	2572.1	2838.1	3057.8	3154.9	3173.3	3061.1	2876.6	2639.5	2408.4
10°	2233.9	2263.4	2398.7	2725.5	3027.3	3193.7	3219.2	3072.2	2806.9	2511.5	2239.2
12.5°	2071.8	2106.3	2244.6	2598.9	2922.5	3106.7	3156.9	3035.0	2746.6	2420.8	2123.7
15°	1997.1	2036.6	2182.0	2517.2	2806.2	2951.3	2992.8	2940.2	2713.1	2406.4	2096.9
17.5°	2040.0	2082.8	2232.9	2524.3	2697.1	2759.0	2792.5	2814.0	2713.1	2493.1	2175.3
20°	2215.8	2262.0	2420.8	2595.6	2606.6	2583.5	2619.4	2694.7	2744.6	2657.9	2363.5
22.5°	2458.9	2513.2	2692.4	2717.8	2562.4	2475.0	2479.7	2597.9	2801.9	2866.9	2624.7
25°	2755.3	2821.7	3003.8	2900.0	2580.9	2410.4	2408.7	2518.2	2857.8	3076.2	2915.8
27.5°	3049.7	3122.7	3282.8	3122.4	2656.9	2398.7	2395.3	2494.1	2912.4	3262.4	3233.6
30°	3296.6	3367.6	3505.5	3283.5	2738.9	2426.1	2410.0	2519.9	2944.9	3383.3	3465.4
32.5°	3497.5	3554.4	3666.0	3394.4	2826.7	2479.4	2444.5	2588.9	3000.2	3485.5	3678.4
35°	3718.6	3778.5	3823.0	3499.9	2925.1	2556.1	2506.2	2698.4	3085.2	3589.3	3911.8
37.5°	3970.7	4030.4	4025.0	3596.3	3050.1	2683.0	2651.2	2871.9	3217.5	3692.1	4172.4
40°	4217.6	4278.5	4235.0	3701.8	3196.8	2892.3	2868.9	3132.5	3394.7	3823.7	4477.8
42.5°	4448.7	4514.6	4421.5	3801.6	3371.6	3156.2	3196.4	3468.0	3616.4	3985.8	4741.0
45°	4634.9	4702.2	4577.9	3898.7	3555.8	3476.4	3597.3	3839.8	3883.0	4122.8	4918.9
47.5°	4770.2	4833.8	4686.5	3995.9	3791.6	3867.9	4078.6	4229.6	4123.8	4241.7	5045.2
50°	4856.6	4906.2	4718.3	4117.4	4101.0	4324.8	4580.0	4653.6	4350.5	4348.9	5198.5
52.5°	4911.5	4934.0	4741.7	4244.4	4423.9	4822.1	5070.9	5094.0	4584.0	4466.8	5405.2
55°	5100.7	5118.8	4907.8	4398.1	4690.8	5257.8	5515.0	5493.6	4848.2	4697.5	5649.0
57.5°	5423.6	5442.7	5251.1	4619.1	4906.8	5527.1	5836.9	5875.4	5158.0	5021.7	5910.2
60°	5585.7	5621.2	5552.9	4899.1	5116.2	5699.2	6056.3	6179.2	5545.2	5449.1	6163.4
62.5°	5438.7	5490.3	5589.4	5209.6	5324.1	5794.0	6124.6	6288.0	5941.7	5947.1	6319.5
65°	5145.3	5186.5	5354.6	5379.7	5444.7	5782.3	5955.8	6136.0	6184.5	6404.6	6311.1
67.5°	4791.0	4806.4	4949.0	5393.1	5269.9	5430.0	5448.7	5582.0	5992.6	6566.7	6057.6
70°	4280.9	4289.2	4413.8	4944.7	4528.7	4563.9	4536.1	4563.2	5152.0	6171.8	5417.6
72.5°	3445.3	3466.4	3643.5	4106.4	3299.2	3197.8	3416.1	3404.1	3967.7	5214.3	4023.7
75°	2536.6	2573.1	2840.7	3307.6	2315.6	2094.6	2254.0	2296.5	2820.6	4033.4	2516.2
77.5°	1776.1	1803.2	2062.4	2431.5	1675.9	1497.7	1440.1	1490.7	1861.8	2917.8	1267.7
80°	1023.2	1033.2	1198.7	1404.0	1129.3	1292.1	1170.5	1205.4	1115.6	1298.1	545.2
82.5°	669.5	671.2	735.8	835.6	703.3	817.2	604.9	773.3	686.2	521.5	177.5
85°	361.7	363.7	426.7	593.1	398.2	225.1	132.3	271.6	424.3	119.6	48.6
87.5°	39.9	36.5	128.6	215.7	110.5	20.4	7.0	30.5	68.0	7.7	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P324146
 CATALOG NUMBER: GAN-SA2A-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9
2.5°	2536.3	2508.5	2439.2	2365.8	2306.9	2251.6	2196.0	2128.0	2075.5	2064.7	2047.3
5°	2482.1	2394.0	2248.6	2102.6	1985.0	1836.7	1742.6	1669.2	1597.5	1593.2	1578.8
7.5°	2292.5	2176.6	1972.0	1770.0	1604.6	1463.2	1320.6	1225.1	1150.1	1123.6	1107.9
10°	2110.3	1980.0	1724.5	1494.1	1346.4	1221.4	1121.0	1021.2	930.7	868.4	840.3
12.5°	1983.0	1839.0	1557.4	1358.7	1252.9	1134.4	1011.8	887.2	783.0	708.0	662.1
15°	1933.8	1780.1	1501.4	1305.2	1174.5	1024.5	867.8	725.4	609.9	541.9	500.7
17.5°	1992.4	1813.6	1497.1	1239.9	1057.3	870.8	697.6	529.5	420.7	369.1	342.6
20°	2141.1	1920.1	1495.4	1159.8	918.0	688.6	472.6	348.3	282.3	253.5	241.1
22.5°	2351.4	2056.0	1508.8	1080.8	773.0	492.0	326.2	255.9	222.0	206.6	199.6
25°	2622.0	2246.9	1546.6	1009.1	636.7	367.1	254.2	214.3	190.6	178.5	173.5
27.5°	2910.4	2466.6	1605.6	946.8	525.8	292.7	217.7	183.5	166.5	158.1	153.4
30°	3148.2	2721.2	1665.2	877.5	445.4	255.2	199.3	167.5	147.7	142.3	138.0
32.5°	3356.2	2913.8	1707.4	814.8	392.9	226.7	180.2	149.7	136.3	125.9	121.2
35°	3571.5	3074.2	1706.1	771.0	356.7	205.3	164.1	134.0	117.9	105.8	102.1
37.5°	3804.6	3255.4	1676.9	733.5	340.9	188.2	155.1	125.6	109.5	97.5	92.8
40°	4077.6	3445.6	1647.1	698.3	336.6	174.5	148.7	118.9	101.8	90.1	85.4
42.5°	4343.5	3617.1	1621.0	672.2	317.8	174.2	143.0	113.9	95.8	84.4	79.0
45°	4556.2	3776.8	1616.0	656.4	298.1	180.2	140.0	110.5	91.1	79.7	74.7
47.5°	4733.0	3950.3	1648.1	645.4	279.3	164.4	147.4	108.2	86.7	75.7	70.0
50°	4943.3	4163.3	1723.8	627.3	259.6	148.0	168.8	108.8	83.1	71.7	65.6
52.5°	5236.7	4458.0	1835.0	596.8	232.4	133.0	166.1	109.5	79.0	67.3	61.3
55°	5565.6	4826.1	1954.6	546.2	194.6	113.2	142.3	104.8	71.3	62.6	56.9
57.5°	5911.2	5160.0	2025.6	486.0	154.7	97.8	113.9	95.5	63.0	56.3	52.6
60°	5965.5	5287.0	1993.1	411.9	122.9	85.1	84.4	97.1	56.3	49.6	46.9
62.5°	5830.5	5127.5	1836.0	346.0	102.8	74.7	69.3	84.7	50.9	44.2	41.5
65°	5571.0	4696.5	1581.5	311.8	95.5	64.0	57.6	59.6	44.5	38.5	36.2
67.5°	5209.9	4121.1	1298.5	292.4	94.4	54.9	49.2	45.2	38.5	33.5	31.5
70°	4471.8	3433.2	1035.9	281.7	91.8	46.2	41.5	36.8	32.2	28.5	26.8
72.5°	3291.2	2432.8	805.8	269.9	92.4	36.8	36.2	30.5	25.8	22.1	21.4
75°	1901.6	1389.9	528.5	218.7	88.1	28.5	30.1	21.4	18.1	15.4	15.4
77.5°	1013.5	847.7	201.3	91.1	32.2	18.1	17.1	12.7	11.4	9.4	9.0
80°	441.8	373.1	60.6	25.5	17.8	9.7	6.4	5.7	5.0	4.0	3.7
82.5°	156.4	135.0	19.8	12.4	7.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.5	25.5	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P324146
 CATALOG NUMBER: GAN-SA2A-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9
2.5°	2011.8	2004.5	1960.9	1962.6	1970.3	1981.4	1955.2	1967.3	1999.8	2030.9	2042.6
5°	1555.7	1557.4	1530.9	1547.3	1562.0	1572.1	1529.9	1530.6	1556.3	1591.5	1609.9
7.5°	1096.2	1093.5	1094.8	1134.0	1161.8	1141.7	1157.5	1102.9	1106.2	1131.3	1112.6
10°	814.8	778.0	757.2	786.7	817.2	806.1	779.0	761.3	773.7	801.5	799.4
12.5°	640.4	587.4	556.3	535.2	560.3	539.5	538.9	523.5	506.7	509.7	554.3
15°	481.6	443.1	406.3	372.4	371.8	364.7	328.9	288.7	285.3	287.4	310.5
17.5°	331.2	318.2	303.1	274.0	266.3	236.8	202.0	185.9	177.8	181.5	189.2
20°	232.8	227.7	229.4	213.7	202.6	174.5	154.1	147.7	146.4	150.0	153.7
22.5°	192.9	183.9	182.9	175.8	164.8	144.3	133.3	129.6	127.9	131.3	134.0
25°	168.8	159.8	156.1	151.7	140.0	125.9	119.2	115.9	114.2	116.2	117.9
27.5°	148.7	140.3	137.0	134.0	122.6	112.5	107.2	104.2	102.8	103.5	105.2
30°	133.6	126.3	121.9	118.2	108.5	101.5	96.8	93.8	92.4	92.4	94.1
32.5°	117.9	113.9	109.9	105.2	96.1	91.4	86.7	83.4	82.1	82.4	83.7
35°	98.1	96.8	97.8	93.4	85.7	81.7	77.0	73.3	72.3	72.7	74.0
37.5°	87.1	81.0	84.7	82.4	78.0	72.7	66.6	63.3	61.6	62.6	63.3
40°	80.0	72.7	70.0	72.3	71.7	63.0	57.6	54.3	52.9	53.3	53.9
42.5°	74.0	65.3	59.3	58.9	63.0	54.9	49.2	46.2	44.5	44.5	45.2
45°	68.3	58.9	51.6	45.9	52.9	46.6	41.2	38.5	36.5	36.5	36.8
47.5°	64.0	53.6	44.9	37.5	39.9	38.2	33.8	31.1	29.1	29.1	29.5
50°	59.9	48.2	38.9	31.5	29.8	31.5	27.5	24.4	23.1	22.8	23.4
52.5°	55.6	42.9	33.2	26.8	23.4	23.8	21.4	19.4	17.8	17.8	18.4
55°	51.2	38.5	28.8	22.8	19.4	17.8	17.1	15.7	14.4	14.4	15.1
57.5°	46.9	33.8	24.4	18.8	15.4	14.1	14.1	13.1	12.1	12.1	12.7
60°	42.9	29.1	20.1	15.4	12.1	11.7	12.1	11.1	10.4	10.4	11.1
62.5°	38.2	24.8	16.4	12.7	9.7	9.4	10.4	9.7	9.0	9.0	9.7
65°	32.5	21.1	13.1	9.7	7.4	7.4	8.7	8.0	7.4	7.4	8.0
67.5°	27.5	17.8	10.0	7.0	5.4	5.7	7.4	6.7	6.4	6.4	7.0
70°	22.8	13.7	7.0	4.4	3.0	4.4	5.7	5.7	5.7	5.7	6.4
72.5°	17.1	9.4	4.0	1.7	1.3	3.0	4.7	5.4	5.0	5.0	6.0
75°	11.1	5.4	1.3	0.0	0.0	1.7	3.7	4.4	4.4	4.0	5.0
77.5°	6.4	1.7	0.0	0.0	0.0	0.0	2.3	2.0	1.7	1.3	2.3
80°	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P324146
 CATALOG NUMBER: GAN-SA2A-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9
2.5°	2089.9	2129.4	2185.0	2243.9	2334.7	2406.7	2477.4	2538.0	2561.4	2571.1
5°	1654.1	1712.1	1793.5	1898.0	2061.7	2209.1	2358.5	2508.8	2574.2	2590.6
7.5°	1186.9	1261.0	1364.4	1495.4	1687.3	1878.2	2086.9	2307.6	2408.7	2434.2
10°	878.5	968.9	1087.5	1225.5	1408.7	1604.9	1832.3	2084.5	2200.1	2233.9
12.5°	623.3	745.5	904.3	1072.1	1230.8	1406.0	1636.1	1914.0	2035.3	2071.8
15°	366.1	484.3	672.2	896.9	1100.2	1277.7	1511.5	1826.6	1960.3	1997.1
17.5°	210.0	268.9	410.9	661.5	937.4	1183.3	1472.3	1848.4	2005.8	2040.0
20°	160.4	179.2	236.8	426.0	747.2	1090.5	1472.3	1971.6	2165.6	2215.8
22.5°	140.3	154.1	177.5	254.2	549.9	991.0	1489.4	2149.8	2403.3	2458.9
25°	124.6	137.0	157.1	191.2	375.1	872.8	1529.9	2368.5	2683.3	2755.3
27.5°	111.5	123.2	141.3	167.5	256.5	730.1	1584.5	2625.1	2992.1	3049.7
30°	99.8	110.9	127.3	145.7	197.9	568.3	1631.0	2866.9	3234.6	3296.6
32.5°	88.8	98.8	113.5	127.3	162.1	420.3	1636.1	3058.4	3435.9	3497.5
35°	78.4	87.4	100.8	111.5	134.3	331.9	1558.0	3224.6	3637.2	3718.6
37.5°	68.3	77.0	88.8	96.8	118.2	270.6	1438.8	3409.8	3895.4	3970.7
40°	58.9	66.6	78.7	84.1	111.9	208.0	1309.2	3604.0	4148.6	4217.6
42.5°	50.2	57.6	69.3	79.7	98.1	155.4	1169.2	3786.2	4376.3	4448.7
45°	41.9	49.6	61.3	84.4	81.4	116.2	1019.5	3907.1	4556.2	4634.9
47.5°	33.8	42.5	58.6	80.4	65.0	85.4	900.9	4021.7	4692.5	4770.2
50°	27.1	35.8	66.0	71.7	53.3	65.3	851.4	4124.1	4781.9	4856.6
52.5°	22.1	30.1	62.3	54.9	44.5	53.9	878.1	4290.3	4864.6	4911.5
55°	18.4	23.8	37.5	38.2	37.8	45.9	911.3	4528.7	5078.6	5100.7
57.5°	16.1	19.1	26.1	29.5	31.8	40.9	912.0	4871.0	5409.9	5423.6
60°	13.7	16.7	21.8	23.8	27.5	36.5	878.8	4990.6	5540.2	5585.7
62.5°	12.1	14.7	18.1	19.8	23.1	32.8	801.1	4817.4	5361.3	5438.7
65°	10.7	13.4	15.1	16.7	20.4	29.5	673.2	4471.1	5064.6	5145.3
67.5°	9.4	11.7	13.4	15.1	18.4	26.1	495.7	4068.9	4724.0	4791.0
70°	8.4	10.4	12.1	13.4	16.1	22.1	300.8	3452.6	4253.1	4280.9
72.5°	8.0	9.4	11.1	12.1	14.1	19.4	152.4	2537.3	3400.1	3445.3
75°	7.0	8.4	10.0	10.7	12.4	16.7	62.0	1666.5	2464.0	2536.6
77.5°	5.7	7.7	9.0	9.7	10.7	13.7	31.5	1065.0	1729.2	1776.1
80°	2.0	5.7	7.7	8.0	9.0	10.0	20.8	583.1	1003.1	1023.2
82.5°	0.0	3.7	6.0	5.7	6.4	7.7	13.4	277.3	662.1	669.5
85°	0.0	1.7	4.7	3.7	2.7	5.4	4.7	60.6	347.3	361.7
87.5°	0.0	0.0	0.3	1.7	1.3	2.0	0.7	0.3	31.5	39.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)